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TS

TS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/309,155 05/10/99 ZAVRACKY

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WM02/0216

EXAMINER

WU, X

ART UNIT

PAPER NUMBER

2674

DATE MAILED:

02/16/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

TS

Office Action Summary

Application No.
09/309,155

Applicant(s)
ZAVRACKY ET AL.

Examiner
Xiao Wu

Group Art Unit
2674



☐ Responsive to communication(s) filed on _____.

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire THREE month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-17 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-17 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 5

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2674

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7 and 12-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Stewart et al (US Patent No. 5,337,068).

As to claims 1, 12-13, Stewart discloses a method of displaying an image comprising the steps of: providing a matrix liquid crystal display; writing an image to the display; clearing the image from the display' lashing a light source; and repeating the steps of writing; clearing and flashing to producing a second image (see Fig. 6).

As to claim 2, Stewart discloses the steps of allowing the liquid crystal image to rotate towards an equilibrium prior to flashing the light source (column 11, line 57 to column 12, line 2).

As to claim 3, Stewart discloses the flashing of the light source ends before the writing of the next image (see Fig. 6).

As to claim 4, Stewart discloses the flashing of the light source continuous for a specific time period of the writing of the next image (Fig. 6).

As to claim 5, Stewart discloses the liquid crystal display is an active matrix LCD having a plurality of pixel electrodes, counter electrode and an interposed liquid crystal (see Fig. 2b).

As to claims 6 and 7, Stewart discloses the step of clearing the image from the display comprising the step of initializing the pixel electrodes to a set voltage (Fig. 6).

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al (US Patent No. 5,337,068).

Stewart does not specifically disclose the flashing rate is 165 subframes per second. However, it would have been obvious to one of ordinary skill in the art to have designed a suitable range of the flashing rate in order to avoid a flickering.

5. Claims 14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al (US Patent No. 5,337,068) in view of Ross (US Patent No. 4,917,469).

It is noted that Stewart does not disclose sensing the properties of the liquid crystal. Ross is cited to teach a LCD device with a sensor for sensing the liquid crystal. It would have been

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obvious to one of ordinary skill in the art to have modified Stewart with the features of the temperature sensor as taught by Stewart because the temperatures sensor can provide a feedback signal to stabilize the LCD without a temperature effect.

6. Claims 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al (US Patent No. 5,337,068) in view of Kaneko (US Patent No. 6,151,004).

Note the discussion of Stewart above. Stewart does not specifically disclose switching the applied voltage to the counter electrode panel after every subframe. Kaneko is cited to teach a LCD device with a light source control similar to Stewart. Kaneko further discloses the two voltage levels are applied to counter electrode after every subframe (see Fig. 3). It would have been obvious to one of ordinary skill in the art to have modified Stewart with the features of the variable control for the counter electrode as taught by Kaneko because the AC driving can prolong the life of the LCD.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721. The examiner can normally be reached on Monday to Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA.,
Sixth Floor (Receptionist).

xw

February 9, 2001



**XIAO WU
PRIMARY EXAMINER
ART UNIT 2674**